

Amendments to the Specification

On pages 1 and 2, please replace the first 14 consecutive paragraphs following the section titled "Cross-Reference to Other Applications", with the following 14 paragraphs:

The following applications of common assignee are related to the present application, and are herein incorporated by reference in their entireties:

"Method and System for Down-Converting Electromagnetic Signals," Ser. No. 09/176,022, ~~Attorney Docket No. 1744.0010000~~, filed October 21, 1998, now U.S. Patent No. 6,061,551.

"Method and System for Down-Converting Electromagnetic Signals having Optimized Switch Structures," Ser. No. 09/293,095, ~~Attorney Docket No. 1744.0010001~~, filed April 16, 1999, now U.S. Patent No. 6,580,902.

"Method and System for Down-Converting Electromagnetic Signals Including Resonant Structures for Enhanced Energy Transfer," Ser. No. 09/293,342, ~~Attorney Docket No. 1744.0010002~~, filed April 16, 1999, now U.S. Patent No. 6,687,493.

"Method and System for Frequency Up-Conversion," Ser. No. 09/176,154, ~~Attorney Docket No. 1744.0020000~~, filed October 21, 1998, now U.S. Patent No. 6,091,940.

"Method and System for Frequency Up-Conversion with a Variety of Transmitter Configurations," Ser. No. 09/293,580, ~~Attorney Docket No. 1744.0020002~~, filed April 16, 1999, now U.S. Patent No. 6,542,722.

“Method and System for Ensuring Reception of a Communications Signal,” Ser. No. 09/176,415, ~~Attorney Docket No. 1744.0030000~~, filed October 21, 1998, now U.S. Patent No. 6,061,555.

“Integrated Frequency Translation And Selectivity,” Ser. No. 09/175,966, ~~Attorney Docket No. 1744.0130000~~, filed October 21, 1998, now U.S. Patent No. 6,049,706.

“Integrated Frequency Translation and Selectivity with a Variety of Filter Embodiments,” Ser. No. 09/293,283, ~~Attorney Docket No. 1744.0130001~~, filed April 16, 1999, now U.S. Patent No. 6,560,301.

“Applications of Universal Frequency Translation,” Ser. No. 09/261,129, ~~Attorney Docket No. 1744.0140001~~, filed March 3, 1999, now U.S. Patent No. 6,370,371.

“Method, System, and Apparatus for Balanced Frequency Up-Conversion of a Baseband Signal,” Serial No. 09/525,615, ~~Attorney Docket No. 1744.0450003~~, filed March 14, 2000, now U.S. Patent No. 6,853,690.

“DC Offset, Re-radiation, and I/Q Solutions Using Universal Frequency Translation Technology,” Serial No. 09/526,041, ~~Attorney Docket No. 1744.0880000~~, filed March 14, 2000, now U.S. Patent No. 6,879,817.

“Method and System for Down-converting an Electromagnetic Signal, and Transforms for Same, and Aperture Relationships,” Serial No. 09/550,644, ~~Attorney Docket No. 1744.0010009~~, filed April 14, 2000.

“Wireless Local Area Network (WLAN) Using Universal Frequency Translation,
“Serial No. ~~(to be assigned)~~ 09/632,855, ~~Attorney Docket No. 1744.0630001~~, filed
August 4, 2000.

On page 7, line 3, please amend the paragraph as follows:

FIGS. 42-44 are example implementations of a WLAN interface. FIG. 42
includes FIGS. 42A and 42B which should be referred to for references to FIG. 42 in the
specification. FIG. 43 includes FIGS. 43A and 43B which should be referred to for
references to FIG. 43 in the specification. FIG. 44 includes FIGS. 44A and 44B which
should be referred to for references to FIG. 44 in the specification.

On page 7, lines 4-5, please amend the paragraph as follows:

FIGS. ~~45, 46A, and 46B~~ 45 and 46A-C relate to an example MAC interface for
an example WLAN interface embodiment.

On page 7, lines 6-7, please amend the paragraph as follows:

FIGS. ~~47, 48, 49A, and 49B~~ 47, 48, and 49A-C relate to an example
demodulator/modulator facilitation module for an example WLAN interface
embodiment. FIG. 47 includes FIGS. 47A-D which should be referred to for references
to FIG. 47 in the specification. FIG. 48 includes FIGS. 48A-B which should be referred
to for references to FIG. 48 in the specification.

On page 7, lines 8-9, please amend the paragraph as follows:

FIGS. 50, 51, 52A, and 52B relate to an example alternate demodulator/modulator facilitation module for an example WLAN interface embodiment. FIG. 50 includes FIGS. 50 and 50A-D which should be referred to for references to FIG.50 in the specification. FIG. 51 includes FIGS. 51A-B which should be referred to for references to FIG. 51 in the specification.

On page 7, line 10, please amend the paragraph as follows:

FIGS. 53 and 54 relate to an example receiver for an example WLAN interface embodiment. FIG. 53 includes FIGS. 53A-C which should be referred to for references to FIG. 53 in the specification.

On page 7, lines 11-12, please amend the paragraph as follows:

FIGS. 55, 56A, and 56B relate to an example synthesizer for an example WLAN interface embodiment. FIG. 55 includes FIGS. 55A-C which should be referred to for references to FIG. 55 in the specification.

On page 7, lines 13-14, please amend the paragraph as follows:

FIGS. 57, 58, 59, 60, 61A, and 61B relate to an example transmitter for an example WLAN interface embodiment. FIG. 57 includes FIGS. 57A-D which should be referred to for references to FIG. 57 in the specification. FIG. 60 includes FIGS. 60A-D which should be referred to for references to FIG. 60 in the specification.

On page 7, lines 15-16, please amend the specification as follows:

FIGS. 62 and 63 relate to an example motherboard for an example WLAN interface embodiment. FIG. 62 includes FIGS. 62A-I which should be referred to for references to FIG. 62 in the specification.

On page 7, line 17, please amend the paragraph as follows:

FIGS. 64, 65, and 66 relate to example LNAs for an example WLAN interface embodiment. FIG. 64 includes FIGS. 64A-C which should be referred to for references to FIG. 64 in the specification. FIG. 65 includes FIGS. 65A-E which should be referred to for references to FIG. 65 in the specification. FIG. 66 includes FIGS. 66A-B which should be referred to for references to FIG. 66 in the specification.

On page 15, lines 1-2, please amend the paragraph as follows:

FIGS. 146-212 illustrate schematics showing an integrated circuit implementation of an exemplary embodiment of the present invention. FIG 148 includes FIGS. 148A-D which should be referred to for references to FIG. 148 in the specification. FIG. 156 includes FIGS. 156 and 156A-V which should be referred to for references to FIG. 156 in the specification. FIG 157 includes FIGS. 157A-F which should be referred to for references to FIG. 157 in the specification. FIG. 158 includes FIGS. 158A-D which should be referred to for references to FIG. 158 in the specification. FIG. 160 includes FIGS. 160A-D which should be referred to for references to FIG. 160 in the specification. FIG. 161 includes FIGS. 161A-D which should be referred to for references to FIG. 161 in the specification. FIG. 163 includes FIGS. 163A-D which

should be referred to for references to FIG. 163 in the specification. FIG. 164 includes FIGS. 164A-F which should be referred to for references to FIG. 164 in the specification. FIG. 166 includes FIGS. 166A-F which should be referred to for references to FIG. 166 in the specification. FIG. 169 includes FIGS. 169A-D which should be referred to for references to FIG. 169 in the specification. FIG. 174 includes FIGS. 174A-H which should be referred to for references to FIG. 174 in the specification. FIG. 176 includes FIGS. 176A-H which should be referred to for references to FIG. 176 in the specification. FIG. 177 includes FIGS. 177A-H which should be referred to for references to FIG. 177 in the specification. FIG. 201 includes FIGS. 201A-H which should be referred to for references to FIG. 201 in the specification. FIG. 210 includes FIGS. 210A-D which should be referred to for references to FIG. 210 in the specification. FIG. 211 includes FIGS. 211A-D which should be referred to for references to FIG. 211 in the specification.

On page 95, lines 11-17, please amend the paragraph as follows:

FIG. 39 is a block diagram of a WLAN interface 3902 (also referred to as a WLAN modem herein) according to an embodiment of the invention. The WLAN interface/modem 3902 includes an antenna [[3904]] 3903, a low noise amplifier or power amplifier (LNA/PA) 3904, a receiver 3906, a transmitter 3910, a control signal generator 3908, a demodulator/modulator facilitation module 3912, and a media access controller (MAC) interface 3914. The MAC interface 3914 couples the WLAN interface/modem 3902 to a computer 3916 or other data processing or communication device. The computer 3916 preferably includes a MAC 3918.

On page 96, lines 23-25, please amend the paragraph as follows:

Signals 3922 received by the antenna ~~[[3904]]~~ 3903 are amplified by the LNA/PA 3904. The amplified signals 3924 are down-converted and demodulated by the receiver 3906. The receiver 3906 outputs I signal 3926 and Q signal 3928.

On page 98, lines 16-18, please amend the paragraph as follows:

The transmitter 3910 up-converts the processed I and Q signals 3942, 3944, and combines the up-converted I and Q signals. This up-converted/combined signal is amplified by the LNA/PA 3904, and then transmitted via the antenna ~~[[3904]]~~ 3903.

On page 100, lines 12-13, please amend the paragraph as follows:

An example demodulator/modulator facilitation module 3912 is shown in FIGS. 47 and 48. A corresponding BOM list is shown in FIGS. ~~49A and 49B~~ 49A-C.

On page 100, lines 18-19, please amend the paragraph as follows:

An example MAC interface 3914 is shown in FIG. 45. A corresponding BOM list is shown in FIGS. ~~46A and 46B~~ 46A-C. It is noted that the invention is not limited to this example.